WP 05-WH1403

Revision 10

3-Ton Electric Forklift 41-H-009

Technical Procedure

EFFECTIVE DATE:		11/14/19	
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	APPROVED F	FOR USE	

THIS DOCUMENT IMPLEMENTS REQUIREMENTS FOR THE HWFP.

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CHANGE HISTORY SUMMARY

REVISION NUMBER	DATE ISSUED	DESCRIPTION OF CHANGES
9	09/10/19	 Corrected Step 5.1.4. Updated JHA number, title, and affected Precautions. Corrections throughout to match current Permit language and conventions.
10	11/14/19	Minor change. • Added Precaution, bullet 10 and Limitation, bullet 2.

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1.0 INTRODUCTION

1.1 PURPOSE

This procedure provides instructions for preoperational checks of the 3-Ton Electric Forklift (41-H-009).

1.2 SCOPE

All procedure actions are performed by qualified WH personnel or workers under the direct supervision of a qualified individual.

Performance of this procedure, or selected selections of the procedure, implements inspection requirements of the HWFP relative to the scope of, and as defined in, this document.

1.3 RECORDS

Records generated are handled per departmental Records Inventory and Disposition Schedules. Performance of this procedure generates the Equipment Logbook.

2.0 REFERENCES

DOCUMENT NUMBER AND TITLE	BASELINE DOCUMENT	REFERENCED DOCUMENT	KEY STEP
40 CFR 264.15, General Inspection Requirements	✓		
DOE Standard 1090-2011, Hoisting and Rigging	✓		
Hazardous Waste Facility Permit, EPA Identification Number NM48901388-TSDF	✓		(\$)
41-H-009, CLARK Operator's Manual	✓		
WP 04-AD3011, Equipment Lockout/Tagout	✓		
WP 04-AD3016, Equipment Out of Service Process		✓	
WP 05-WH1101, CH Surface Transuranic Mixed Waste Handling Area Inspections		✓	
WP 13-1, Nuclear Waste Partnership LLC Quality Assurance Program Description	✓		
WP 15-GM1002, Issues Management Processing of WIPP Forms		√	
05-WH1403-JHA, General Forklift Operations	✓		

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2.1 ABBREVIATIONS AND ACRONYMS

AR action request CH contact-handled

CMRO Central Monitoring Room Operator

HVAC heating, ventilation, and air-conditioning (system)

HWFP Hazardous Waste Facility Permit

OOS out of service

RWP Radiological Work Permit

SEC Site Environmental Compliance

WH Waste Handling

WHE Waste Handling Engineer WIPP Waste Isolation Pilot Plant

3.0 PRECAUTIONS AND LIMITATIONS

3.1 PRECAUTIONS

- Preoperational checks are required prior to first operation of the forklift for each calendar day of use. [HWFP Table E-1]
 - Mechanical operability
 - Leaks/spills
 - Deterioration
 - On-board fire extinguisher
 - Path clear of obstacles
 - Guards in proper place
- Eye, foot, head, and hand hazards exist when installing or removing battery nip or when spotter is placing long or short legs on MgO racks. Personnel are to wear leather (mechanics) gloves, safety hat, and hard-toed shoes.
- Forklift use hazards exist when spotting heavy equipment. Personnel are to operate on surfaces suitable for travel and spotter is to wear high visibility vest or gloves.
- Moving/falling objects hazards exist while moving material or equipment. Personnel are to stand clear of load.
- Pinch point hazards exist for the spotter when placing long or short legs on MgO racks. Personnel are to wear leather (mechanics) gloves and exercise situational awareness.

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- Radiological hazards exist when moving waste in CH Bay. Personnel are to read and sign the RWP.
- Slip or trip hazards exist during general operations. Personnel are to maintain good housekeeping and practice situational awareness.
- Vehicle traffic and heavy equipment hazards exist during general operations. Personnel will adhere to surfaces suitable for travel.
- Biohazards can be present when using the forklift. If bit or stung by a desert animal or insect, CMR, Health Services, or Emergency Medical Technicians shall be contacted.
- Lack of ventilation hazards exist when charging batteries. Personnel are to verify ventilation is operable.

3.2 LIMITATIONS

- The rated load carrying capacities of the forklift, listed below, must not be exceeded:
 - Forks: 5,700 lbs at 24-inch load center
 - Drum handler: 4,000 lbs at 60-inch load center
- Prior to charging batteries in the TRUPACT Maintenance Facility, verify HVAC system is operable.

4.0 PREREQUISITE ACTIONS

- 4.1 **REVIEW** Equipment Logbook for outstanding deficiencies and ARs.
- 4.2 **IF** forklift battery is charged and still on the battery charger, **THEN PERFORM** the following to disconnect forklift from charger:
 - 4.2.1 **ENSURE** battery charger is OFF.
 - 4.2.2 **DISCONNECT** battery charger power cable from battery power plugs.
 - 4.2.3 **CONNECT** battery power plugs to forklift power plugs.
 - 4.2.4 **RECORD** name, date, and time forklift was removed in Equipment Logbook.

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HWFP 5.0 PERFORMANCE [HWFP Table E-1]

- 5.1 PREOPERATIONAL CHECKS
 - 5.1.1 **COMPLETE** Attachment 1, 3-Ton Electric Forklift 41-H-009 Preoperational Checks.
 - 5.1.2 **NOTIFY** WHE of operational status, deficiencies discovered, and status of each.
 - [A] **IF** deficiencies cannot be corrected when discovered, **THEN INITIATE** an AR.
 - 5.1.3 **RECORD** the following information in Equipment Logbook:
 - Deficiencies found
 - Procedure number
 - Equipment number
 - Hour meter reading
 - Check SAT or problems noted
 - AR(s), if newly initiated or outstanding
 - Date, time, and signature to document performance of preoperational check
 - 5.1.4 **IF** preparing for CH Waste Handling Mode, **THEN GO TO** WP 05-WH1101, CH Surface Transuranic Mixed Waste Handling Area Inspections, and **COMPLETE**Attachment 4, TP-II Preoperational Surface Waste Handling Mode Checklist, 3-Ton Forklift section.

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- 5.1.5 **IF** an HWFP required inspection becomes delinquent or failed **THEN PERFORM** the following:
 - [A] Immediately **NOTIFY** on-call SEC Representative and CMRO of delinquent or failed inspection.
 - [B] **RESCHEDULE** and **COMPLETE** required inspection.
 - [C] **DOCUMENT** the following, and **SUBMIT** to PermitInspections@wipp.ws within five working days:
 - Inspection document number
 - Description of facility, equipment involved
 - Schedule for inspection
 - Reason(s) why inspection was not performed or failed
 - Compensatory measures taken to offset negative impacts from not performing the inspection or equipment not providing its intended function
 - Actions to prevent further delinquencies
 - [D] WHE, **GO TO** WP 15-GM1002, Issues Management Processing of WIPP Forms, and **ENSURE** a WIPP form is generated.

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HWFP (\$) Attachment 1 – 3-Ton Electric Forklift 41-H-009 Preoperational Checks [HWFP Table E-1]

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NOTE

Deficiencies corrected when discovered are considered satisfactory.

	INSPECTION	SPECTION CRITERIA		UNSAT	NA
1.		NO deterioration/damage, which includes visible cracks, erosion, salt build-up, corrosion, malfunctions, and structural deterioration			
	0	NO loose parts			
	General Condition Checks	NO oil leaks, if leak is identified, refer to Attachment 2, Leak Categorization			
	Criecks	NO grease			
		NO trash			
		ENSURE ground strap attached			
		ENSURE tires are in good condition; not excessively worn or cracked			
	Tires/Wheels/ Brakes	ENSURE accessible wheel lugs installed and hand tight			
2.		ENSURE brake pedal has 2-3 inches of free play - readily felt by hand			
		ENSURE brake pedal is not springy or spongy and does not stick or bind when pressed			
		ENSURE parking brake does not bind when set or released			
3.	Battery Compartment	ENSURE compartment is free of acid spills/leaks			
ა.		NO loose or missing caps or cables			
4.	Fire Extinguisher				
	Hydraulic	ENSURE reservoir level is at or above the ADD mark			
5.	System – checked with forks or attachments lowered to the floor	NO leaks from hoses, couplings, or fittings			
6	Upright and	NO obvious wear, damage, or missing parts			
6.	Lift Chains	NO slack or broken chains			

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(\$) Attachment 1 – 3-Ton Electric Forklift 41-H-009 Preoperational Checks [HWFP Table E-1]

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	INSPECTION CRITERIA			UNSAT	NA
	Forklift	NO obvious cracks, breaks, bends, twists, or wear			
7.	Attachments	ENSURE forks are correctly installed and locked in the proper position			
		SIT in seat, VERIFY that the seat belt is in good condition, and FASTEN the seat belt			
		ADJUST seat to provide easy access to all controls			
		ENSURE seat locking mechanism locks			
		ADJUST steering wheel tilt for easy access to all controls			
		ENSURE directional control lever is in NEUTRAL			
		ENSURE hoist control lever is in NEUTRAL			
		ENSURE tilt control lever is in NEUTRAL			
	Forklift Start/ Operating Checks	ENSURE fork position lever is in NEUTRAL			
		ENSURE side shift lever is in NEUTRAL			
		PRESS service brake pedal			
8.		TURN key ON to start forklift			
		Immediately INVESTIGATE any unusual noises			
		ENSURE battery charge indicator shows adequate charge for operation			
		VERIFY horn sounds			
		VERIFY front lights illuminate			
		VERIFY back lights illuminate			
		VERIFY hoist control raises and lowers forks or attachment			
		VERIFY tilt control tilts forks/attachment forward and backward			
		VERIFY side shift control operates forks left and right			
		VERIFY fork position control operates forks in and out			

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(\$) Attachment 1 – 3-Ton Electric Forklift 41-H-009 Preoperational Checks [HWFP Table E-1]

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	INSPECTION	CRITERIA	SAT	UNSAT	NA
		RAISE forks 6-10 inches above the floor			
		ENGAGE the parking brake			
		RELEASE service brake pedal			
		Attempt to MOVE forklift forward and backward ensuring forklift does not move in either direction, if applicable			
		RELEASE the parking brake			
	Brakes / Operating Checks	Using directional control lever, SELECT a direction to travel			
9.		PRESS the accelerator pedal and MOVE forklift			
9.		VERIFY forklift steering operates smoothly and does not pull to the right or the left			
		VERIFY brakes are in good condition and do not drag			
		VERIFY backup alarm is operational while moving in reverse			
		VERIFY that seat brake engages when operator rises from seat			
		VERIFY brake lights illuminate, when pedal is pushed, if applicable			
		STOP forklift			
		SET parking brake			
	Drum Handling Attachment	VERIFY NO obvious cracks, breaks, bends, twists, or wear exists			
10.		INSTALL drum handling attachment on forks			
		ENSURE safety chain is installed around the load backrest			

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Attachment 2 – Leak Categorization

	TYPE 0	TYPE 1	TYPE 2	TYPE 3	TYPE 4	
Indications:	No	Dampness	Dripping	Spraying	Ruptured	
	indications of	around hoses	from a	from a hose	hose	
	moisture-dry	or engine	hose	or oil	(e.g., oil line,	
		compartments,		running	fuel line)	
		including oil		down		
		sheen		firewall, etc.		
Status	Oper	ational	DO NOT OPERATE			
Required	None	RECORD leak	[A] TAG equipment OOS with an			
Actions:		Type 1 and	OOS Tag per WP 04-AD3016,			
		the source of	Equip	ment Out of Se	ervice	
		the leak in	Proce	SS.		
		Logbook	[B] SUBM	IIT AR for repa	irs.	
			[C] RECORD leak type and			
			AR number in Logbook.			
			[D] WHEN repairs and cleanup are			
			completed, THEN the equipment			
			can be put back into service.			